QU-210S

v1.3 HDMI 2 to 10 Rack Mountable Distribution Amplifier

OPERATION MANUAL

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1. Introduction

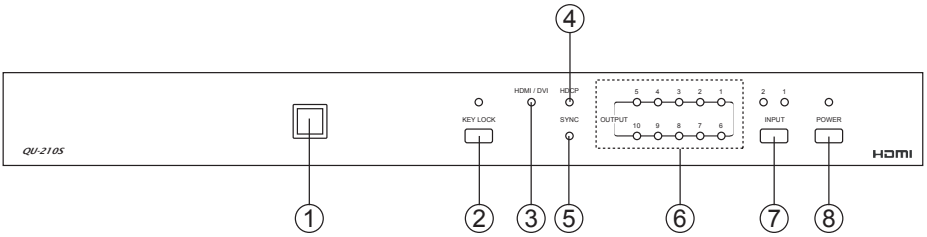
The QU-210S Distribution Amplifier (splitter) accepts two HDMI inputs and splits either of these switchable inputs to ten identical outputs. This device is compatible to v1.3 HDMI specifications, supporting 'Deep Colour' together with High Definition Audio. Each buffered output can run 1080p/8-bit up to 20 metres and can also be cascaded up to 3 layers.

2. Features

- Compliant with v1.3 HDMI, HDCP 1.1 and DVI 1.1 standards
- HDMI 2 to 10 Splitter
- Resolutions supported: PC - VGA to UXGA; HDTV - 480i to 1080p plus 1080p24fps
- High Definition Audio supported: Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio plus LPCM (32-192KHz sample rate)
- Auto signal amplification & equalisation improves signal transmission distances
- Supports CEC bypass
- Supports Deep Colour (10 & 12 bit)
- Selectable EDID settings - TV (downstream) and STD (fixed)
- Power, HDMI/DVI, HDCP & SYNC plus independent output LED's indicator
- Supports xvYCC
- Supports 3D signals

3. Operation Controls and Functions

3.1 Front Panel



1. Remote Control Sensor.

2. Key Lock: Press and hold the 'Key Lock' button for 5 seconds. The system will enter Key Lock mode and the LED indicator will illuminate. When the system is in Key Lock Mode, all functionality of the buttons will be disabled.

3. HDMI/DVI Indicator: The LED will illuminate when the selected HDMI input is connected to a HDMI source. The LED will not illuminate when the HDMI input is connected to a DVI source.

4. HDCP Indicator: The LED indicator will illuminate when the HDMI input source is HDCP protected.

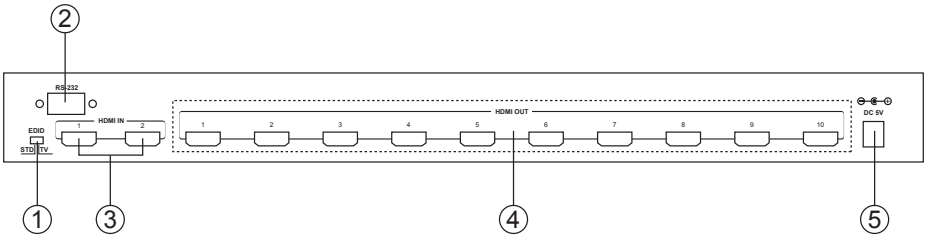
5. SYNC Indicator: The LED indicator will illuminate when the selected HDMI Input successfully connects to an HDMI or DVI source.

6. HDMI Output Indicator: The LED will illuminate when the output sources are connected.

7. HDMI Input Indicator: Press the 'INPUT' button repeatedly to switch your desired Input (HDMI 1 or HDMI 2). The LED indicator will illuminate to indicate which input source is selected.

8. POWER Indicator: The Power LED will illuminate in Green when the power is On, and Red when in Standby Mode.

3.2 Rear Panel



1. EDID Control Switch: Default setting is TV (downstream). In this mode the QU-210S will search all output ports (starting at output 1) for the highest video/audio settings connected to each of the outputs. The detection priority of the matrix is v1.3 HDMI, v1.2 HDMI, DVI. Switch to STD (fixed EDID) if you have any issues with the default setting (TV). When switching to STD, please ensure that the unit is powered OFF, then ON again, for the setting to be made. By changing to STD, this will force the source to be configured as standard stereo (PCM) Audio and initiate a search for a common compatible video resolution.

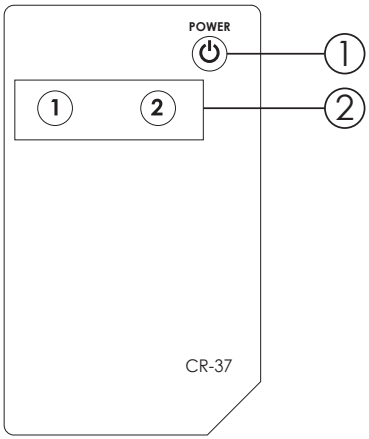
2. RS-232: 9-Pin D-sub connection for connecting your PC or other RS-232 Control based console for remote operation.

3. HDMI Inputs 1 and 2: Connect input ports to the HDMI or DVI output of your source equipment such as a Blu-Ray player or set-top box.

4. HDMI Outputs 1 to 10: Connect each of the output ports to the HDMI display. When more than one output is connected, the HDMI outputs play an identical video signal simultaniously.

5. POWER: Plug the 5V DC power supply into the splitter and connect the adaptor to the AC wall socket.

4. Remote Control



1. Power: Press the button to turn the unit ON or OFF.

2. Input Select for HDMI: Press '1' to select HDMI Input 1, or Press '2' to select HDMI Input 2.

5. RS-232 Protocol

5.1 Pin Definitions

The connection between the Splitter and Remote Controller with RS-232 Cable.

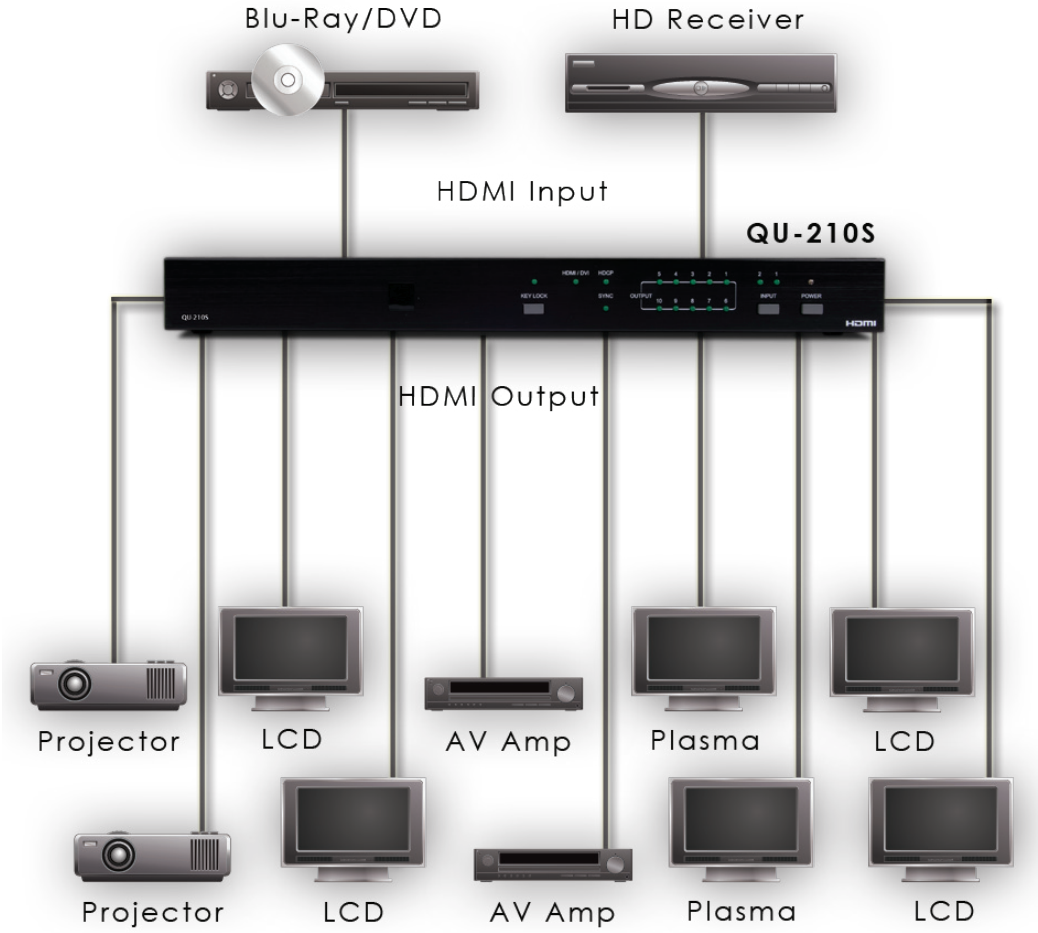
QU-210S			Remote Control Console	
PIN	Definition		PIN	Definition
1	NC		1	NC
2	TxD		2	RxD
3	RxD	→	3	TxD
4	NC		4	NC
5	GND		5	GND
6	NC	←	6	NC
7	NC		7	NC
8	NC		8	NC
9	NC		9	NC

* RS-232 transmission format:
  Baud Rate: 9600bps
  Data Bit: 8 bits
  Parity: None
  Stop Bit: 1 bit
  Flow Control: None

5.2 Commands

COMMAND	ACTION
Power 00	Power OFF (Standby)
Power 01	Power ON
Port 01	Select Input 1
Port 02	Select Input 2

4. Connection Diagram



5. Specifications

Input	2 x HDMI
Output	10 x HDMI
Power Supply	5V/6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	435(W) x 160(D) x 45(H)
Gross Weight (g)	2120
Net. Weight (g)	1760
Chassis Material	Aluminium
Colour	Black
Operating Temperature	Operating from 0°C ~ 40°C

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